

Initial analyses will focus on the above “indicator” radionuclides of concern. Their presence at concentrations above background levels could indicate the presence of other related radionuclides. Additional analyses to detect and quantify fission, transuranic, and source material, including any tests specifically required by the disposal facility and/or the HPNS waste management program, will be performed based on the presence of sandblast grit, the results of the above tests, and/or discussions with the receiving facilities.

Release criteria for the radionuclides of concern at Parcel E-2 are listed below in Table 6.2. The target minimum detectable concentration (MDC) for laboratory sample analyses will be 0.1 times the release criteria. For gamma spectroscopy, the sample count time will be based on counting time necessary to achieve the Cs-137 target MDC.

If the sample results exceed the release criteria, the IDW will be classified as LLRW and transferred to the Navy’s radiological T&D contractor for further characterization and disposal. If the sample results are less than release criteria, the IDW will be considered non-LLRW and will be stockpiled and/or sampled further for chemical characterization and disposal.

**Table 6.2 - Release Criteria**

<i>Radionuclide of Concern</i>	<i>Soil (pCi/g)<sup>a</sup></i>	<i>Water (pCi/L)<sup>c</sup></i>
Cesium-137	0.113 <sup>b</sup>	119
Cobalt-60	0.252 <sup>b</sup>	100
Radium-226	1.0 <sup>b,d</sup>	5 <sup>e</sup>
Strontium-90	0.331 <sup>b</sup>	8
Plutonium-239	2.59 <sup>c</sup>	15

Notes:

<sup>a</sup> Based on residential future use

<sup>b</sup> Source: Table 6, *Final Record of Decision for Parcel E-2* (Base Realignment and Closure [BRAC] Program Management Office-West [PMO-W], 2012)

<sup>c</sup> Source: Table 1, *HPNS Basewide Radiological Removal Action, Action Memorandum* (BRAC PMO-W, 2006)

<sup>d</sup> Concentration value is above background

<sup>e</sup> Total radium concentration